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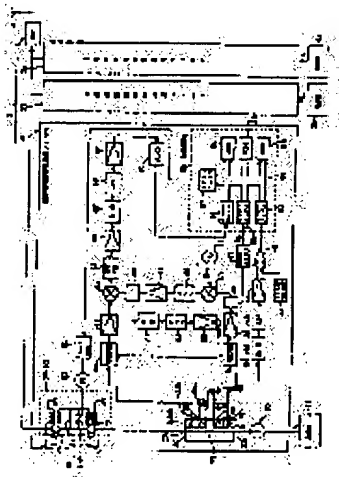
(54) AUTOMATIC TUNING DEVICE FOR BAND PASS FILTER

(57)Abstract:

PURPOSE: To precisely tune the center frequency of a band pass filter to the frequency of a signal to be inputted by providing a first and a second frequency converting means, a detecting means, and a control means.

CONSTITUTION: The first frequency converting means 60 to 62 converts a signal taken out by a first coupling means 22 into a first intermediate frequency signal, and besides, the second frequency converting means 64, 65 converts the signal taken out by a second coupling means 23 into a second intermediate frequency signal having the same frequency as locally oscillated frequency by using the first intermediate frequency signal. Next, the detecting means 67 detects the second intermediate frequency signal, and outputs a detection signal, and afterwards, the control means 50 controls the center frequency of the band pass filter 30 on the basis of the

detection signal so that the level of the detection signal becomes minimum. Here, the level of the detection signal is proportional to the signal reflected by the filter 30. Thus, the center frequency of the filter 30 is made to coincide with and is tuned to the frequency of the signal inputted to the filter 30.



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